

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	rotor same forward same backward same scrape	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 10:08
L2	1314	rotor with forward with backward	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 10:09
L3	1	rotor with forward with (backward or reverse) with scrape	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 10:09
L5	10	"5961291"	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:07
L6	15	("4144986"   "4944748"   "5110264"   "5380171"   "5501583"   "5823261"). PN. OR ("5961291").URPN.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:07
L7	92	rotor with forward with (backward or reverse) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:26
L8	22	("20020043946"   "20030020460"   "20030175124"   "20040081438"   "20040104695"   "20050171724"   "20060104822"   "20060176005"   "20070216345"   "20080018273"   "20080112695"   "5194794"   "6563284"   "6603277"   "6825632"   "6867682"   "6967459"   "6997684"   "7058537"   "7106020"   "7444070"   "7456597").PN. OR ("7719216").URPN.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:28
L9	1964	rotor with forward near2 (backward or reverse)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:31
L10	1	rotor with forward near2 (backward or reverse) with scrape	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:31
L11	2	rotor with forward near2 (backward or reverse) with clear	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:31
L12	6	rotor with forward near2 (backward or reverse) with clear	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 11:31

L13	1	rotor with forward near2 (backward or reverse) with foreign	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:33
L14	75	rotor with forward near2 (backward or reverse) and "418".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:33
L15	31	rotor same screw same forward near2 (backward or reverse) and "418".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:38
L16	438	rotor same screw same forward near2 (backward or reverse)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:38
L17	66	rotor with screw with forward near2 (backward or reverse)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:38
L18	13	ebara.as. and forward near reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 11:41
L19	24	"4664601"	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:04
L20	62	vacuum adj pump same forward near2 reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:08
L21	6	vacuum adj pump same forward near2 reverse and ("417".clas. or "418".clas.)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:08
L22	1955	vacuum adj pump same reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:45
L23	71	vacuum adj pump same reverse and "418".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:45
L24	4	vacuum adj pump same rotor near reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:46
L25	8	vacuum adj pump same rotor with screw with reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:47
L26	28	vacuum adj pump same rotor same screw same reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:48
L27	20	26 not 25	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:48
L28	3	vacuum adj pump same rotor same screw same backwards	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:50
L29	57	vacuum adj pump and rotor same screw same reverse	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:50
L30	29	29 not 26	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 12:50
L31	439	vacuum adj pump same reverse near direction	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 13:01
L32	81	vacuum adj pump with reverse near direction	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/11 13:01

L33	76	vacuum adj pump with reverse adj direction	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:01
L34	10	vacuum adj pump with reverse adj direction with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:02
L35	54	clean\$4 with screw with rotor with (spin\$4 or rotat \$4)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:21
L36	223	(oscillat\$4 or rock\$4) with screw with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:29
L37	29	(oscillat\$4 or rock\$4) with screw with rotor and ("417".clas. or "418".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:29
L38	6	(clean) with screw with rotor and ("417".clas. or "418".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:31
L39	5	(back adj forth) with screw with rotor and ("417".clas. or "418".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:32
L40	5	method near3 clean near3 rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:34
L41	219	rotor near2 back adj2 forth	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:35
L42	14	rotor near2 back adj2 forth same screw	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:35
L43	44	rotor near2 (oscillate) same screw	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:36
L44	0	rotor near2 (jiggle) same screw	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:37
L45	4	rotor near2 (jiggle)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:37
L46	53	screw same rotor with forward near2 reverse	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:37
L47	14	(shake near2 off) with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:43
L48	14	(shake near2 (off or remove)) with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:43
L49	20	(shake near2 (off or remove)) with shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:46
L50	19	49 not 48	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:46
L51	57	(off or remove) with (back adj2 forth) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:48
L52	6	(off or remove) near3(back adj2 forth) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:48
L53	6	(off or remove) near3 (back adj2 forth) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:49
L54	1	(remove) near3 (back adj2 forth) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:49

L55	0	(remove) near3 (oscillate) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:50
L56	7	(remove) near3 (rotate) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:50
L57	1	(remove) with reverse with (rotate) and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:50
L58	0	(remove) with reverse with (rotate) and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:50
L59	0	(remove) with backward with (rotate) and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:51
L60	0	(remove) with backwards with (rotate) and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:51
L61	3	shake near2 rotor with remove	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:56
L62	53	shake near2 rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:56
L63	0	shake near2 rotor with clean	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:56
L64	5	shake near2 rotor and "417".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:56
L65	2	shake near2 rotor and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 13:56
L66	1	"11992086"	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:01
L67	0	"2007196228"	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:01
L68	1	"20070196228"	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:01
L69	0	shake near2 screw and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:02
L70	0	jerk near2 screw and "418".clas.	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:02
L71	0	jerk near2 screw and ("418".clas. or "417".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:03
L72	152	remove near2 (screw or rotor) and ("418".clas. or "417".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:03
L73	209	remove near3 (screw or rotor) and ("418".clas. or "417".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:03
L74	40	remove near3 (screw or rotor) same (back or reverse or backwards) and ("418".clas. or "417".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:03
L75	0	(back adj2 forth) near claeen	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:05
L76	105	(back adj2 forth) near clean	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:05

L77	304	(back adj2 forth) near (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:05
L78	3	77 and ("415".clas. or "417".clas. or "418".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:06
L79	6	(back adj2 forth) near (clean or remove or shake) with shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:07
L80	29	(back adj2 forth) near (clean or remove or shake) same shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:08
L81	12	(oscillat\$4) near (clean or remove or shake) with shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:09
L82	4	(forward near reverse) near3 (clean or remove or shake) with shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:11
L83	0	(forward near reverse) near3 (clean or remove or shake) with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:11
L84	3	(oscillat\$4) near (clean or remove or shake) with rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:11
L85	2	(back adj2 forth) near (clean or remove or shake) same rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:12
L86	11712	(back adj2 forth or oscillat \$4) same (clean or remove or shake) same (shaft or rotor)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:13
L87	137	(back adj2 forth or oscillat \$4) same (clean or remove or shake) same (shaft or rotor) and ("417".clas. or "418".clas.)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:14
L88	0	(backward adj2 forward) near (clean or remove or shake) same rotor	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:24
L89	2	(backward adj2 forward) near (clean or remove or shake) same shaft	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:24
L90	26	(backward adj2 forward) near (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:24
L91	1	rotate near ((backward or back) adj2 (forth or forward)) near (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:25
L92	2674	rotate same ((backward or back) adj2 (forth or forward)) same (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:26

L93	739	rotate with ((backward or back) adj2 (forth or forward)) same (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:26
L94	120	rotate with ((backward or back) adj2 (forth or forward)) with (clean or remove or shake)	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:26
L95	0	(shake near2 (off or remove)) with shaft same centrifugal	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:29
L96	12	rotate near shaft with remove with centrifugal	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:31
L97	2	(shake near2 (off or remove)) with shaft and centrifugal	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:33
L98	9	clean near (rotor or shaft) with centrifugal	US-PGRUB; USPAT; USOCR	OR	ON	2010/06/11 14:34
L99	10	"5961291"	USPAT	OR	OFF	2010/06/11 15:52
L100	0	GB2102072	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2010/06/11 15:52
L101	24	"2102072"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2010/06/11 15:52
L102	1	"10524688"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2010/06/11 15:52
L103	1	"10572511"	USPAT	OR	OFF	2010/06/11 15:52
L104	2	"10572511"	US-PGRUB; USPAT	OR	OFF	2010/06/11 15:52
L105	68010	"417".clas.	US-PGRUB; USPAT	OR	OFF	2010/06/11 15:52
L106	59	bushing with aid with rotation	US-PGRUB; USPAT	OR	OFF	2010/06/11 15:52
L107	199151	swing bushes	US-PGRUB; USPAT	OR	OFF	2010/06/11 15:52
L108	17	swing bushes	US-PGRUB; USPAT	ADJ	OFF	2010/06/11 15:52
L109	5	variably controlled same rotary compressor	US-PGRUB; USPAT	ADJ	OFF	2010/06/11 15:52
L110	12192	intermediate with high with pressure	US-PGRUB; USPAT	ADJ	OFF	2010/06/11 15:52
L111	2658	oil with return with passage	US-PGRUB; USPAT	ADJ	OFF	2010/06/11 15:52
L112	8	L110 same L111	US-PGRUB; USPAT	ADJ	OFF	2010/06/11 15:52

L113	9233	oil adj passage	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:52
L114	11360	oil near passage	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:52
L115	19285	pressure adj chambers	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:52
L116	2	L114 near L115	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:53
L117	558	oil return passage	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:53
L118	16	L117 and rotary near compressor	US-PGPUB; USPAT	ADJ	OFF	2010/06/11 15:53
L119	0	In operation of the compressor, additional oil may be introduced at the air intake, possibly in the form of a "spray." The total volume of oil may be increased to the desired degree to assist in carrying away some of the heat produced since no provision is made for interstage "cooling." A suitable oil return passage (not shown) is provided to return oil collecting inside rear pan "220" to the interior of compartment "160" for readmission into the first stage	US-PGPUB; USPAT	AND	OFF	2010/06/11 15:53
L120	0	In operation of the compressor additional oil may be introduced at the air intake	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L121	0	operation of the compressor additional oil may be introduced at the air intake	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L122	2	operation compressor additional oil introduced air intake	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L123	5	"6077058"	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L124	2	"10572511"	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L125	3	"11345794"	US-PGPUB; USPAT	SAME	OFF	2010/06/11 15:53
L126	24	"4664601"	US-PGPUB; USPAT	WITH	OFF	2010/06/11 15:53

L127	24	"2102072"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2010/06/11 15:53
L128	30	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316"). PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L129	30	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316"). PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L130	17	("4664601"   "4767284"   "4770615"   "4984974"   "5246349"   "5263832"   "5295798"   "5401149"   "5454700"   "5674063"   "5836754"   "5910001"   "5938420"   "6371744"   "6422844"   "6461112"   "6652250").PN. OR ("6948915").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L131	10	"5961291"	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L132	24	"4664601"	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L133	1228	417/44.1.ccls.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L134	1	L133 and rotors near reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L135	3	L133 and rotors with reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L136	4	"417".clas. and rotors near reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L137	24	"4664601"	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L138	30	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316"). PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L139	377	vane near rotary near compressor	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L140	83	L139 and "417".clas.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L141	100066	vacuum adj pump	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L142	1640	L141 and rotors	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L143	352	L142 and reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53



L144	28	L142 and reverse with (spin or rotate)	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L145	5	("4718833").PN. OR ("5314312").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L146	5	("4718833").PN. OR ("5314312").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L147	13	("4293290"   "4621994"   "4846641"   "5295798"   "5314312"   "5329216"   "5354179"   "5779453").PN. OR ("5904473").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L148	26	("2640428"   "3811805"   "4152092"   "4712048"   "4758132"   "4797068"   "4808077"   "4850806"   "5062771"   "Re17689").PN. OR ("5295798").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L149	377	vane rotary compressor	US-PGRUB; USPAT; USOCR	NEAR	OFF	2010/06/11 15:53
L150	53	L149 and rotors	US-PGRUB; USPAT; USOCR	NEAR	OFF	2010/06/11 15:53
L151	3	rotors change direction	US-PGRUB; USPAT; USOCR	NEAR	OFF	2010/06/11 15:53
L152	4090939	vacuum adj pump rotors direction	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L153	2	vacuum adj pump and rotors same ((change or switch) near direction)	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L154	2	vacuum adj pump and rotors same (change near direction)	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L155	97	pump and rotors same (change near direction)	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L156	119	rotors with (change near direction)	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L157	10	"5961291"	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L158	15	("4144986"   "4944748"   "5110264"   "5380171"   "5501583"   "5823261").PN. OR ("5961291").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L159	24	"4664601"	US-PGRUB; USPAT; USOCR	OR	OFF	2010/06/11 15:53
L160	24	"4664601"	US-PGRUB; USPAT	WITH	OFF	2010/06/11 15:53
L161	10	"5961291"	USPAT	OR	ON	2010/06/11 15:53
L162	10	"5961291"	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53

L163	89595	vacuum adj pump	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L164	1120	L163 and control and forward near backward	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L165	2243	L163 and control and forward near (backward or reverse)	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L166	1	L163 and control and forward near (backward or reverse) with scrape	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L167	0	("2009/0097984").URFN.	USPAT	OR	ON	2010/06/11 15:53
L168	3	L163 and control and forward near (backward or reverse) with scrap\$3	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L169	95	L163 and control and forward near (backward or reverse) same start\$3	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L170	27	L163 and control same forward near (backward or reverse) same start\$3	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L171	395	L163 and control same forward near (backward or reverse)	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L172	222	L163 and control with forward near (backward or reverse)	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L173	134	L163 and control with forward near (backward or reverse) same motor	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L174	165	L163 and control\$3 with forward near (backward or reverse) same motor	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L175	473	L163 and (backward or reverse) near2 motor	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L176	179	L163 and (backward or reverse) near motor	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L177	5	L163 and (backward or reverse) near motor and "417".clas.	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L178	922	417/44.1.ccls.	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L179	79	417/27.ccls.	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L180	1	L166 and L163	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
L181	45	L178 and L163	US-PGRUB; USPAT	OR	ON	2010/06/11 15:53
S1	8	"5961291"	USPAT	OR	OFF	2008/09/17 09:29

S2	0	GB2102072	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2008/09/17 09:31
S3	22	"2102072"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2008/09/17 09:32
S4	1	"10524688"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2008/09/17 12:47
S5	0	"10572511"	USPAT	OR	OFF	2008/09/23 11:07
S6	1	"10572511"	US-PGRUB; USPAT	OR	OFF	2008/09/23 11:07
S7	65287	"417".clas.	US-PGRUB; USPAT	OR	OFF	2008/09/23 15:15
S8	53	bushing with aid with rotation	US-PGRUB; USPAT	OR	OFF	2008/09/23 15:15
S9	177051	swing bushes	US-PGRUB; USPAT	OR	OFF	2008/09/23 15:23
S10	10	swing bushes	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:23
S11	4	variably controlled same rotary compressor	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:29
S12	10637	intermediate with high with pressure	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:38
S13	2387	oil with return with passage	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:38
S14	4	S12 same S13	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:38
S15	8231	oil adj passage	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:47
S16	10174	oil near passage	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:48
S17	17162	pressure adj chambers	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:48
S18	2	S16 near S17	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:48
S19	496	oil return passage	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:49
S20	9	S19 and rotary near compressor	US-PGRUB; USPAT	ADJ	OFF	2008/09/23 15:49

S21	0	In operation of the compressor, additional oil may be introduced at the air intake, possibly in the form of a "spray." The total volume of oil may be increased to the desired degree to assist in carrying away some of the heat produced since no provision is made for interstage "cooling." A suitable oil return passage (not shown) is provided to return oil collecting inside rear pan "220" to the interior of compartment "160" for readmission into the first stage	US-PGRUB; USPAT	AND	OFF	2008/09/23 15:52
S22	0	In operation of the compressor additional oil may be introduced at the air intake	US-PGRUB; USPAT	SAME	OFF	2008/09/23 15:52
S23	0	operation of the compressor additional oil may be introduced at the air intake	US-PGRUB; USPAT	SAME	OFF	2008/09/23 15:52
S24	2	operation compressor additional oil introduced air intake	US-PGRUB; USPAT	SAME	OFF	2008/09/23 15:52
S25	3	"6077058"	US-PGRUB; USPAT	SAME	OFF	2008/09/23 16:17
S26	1	"10572511"	US-PGRUB; USPAT	SAME	OFF	2008/09/23 17:06
S27	2	"11345794"	US-PGRUB; USPAT	SAME	OFF	2008/09/24 08:13
S28	22	"4664601"	US-PGRUB; USPAT	WITH	OFF	2009/04/07 13:18
S29	22	"2102072"	US-PGRUB; USPAT; EPO; DERWENT	OR	OFF	2009/04/07 13:19
S30	28	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316"). PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/07 13:20
S31	28	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316"). PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/07 13:20

S32	17	("4664601"   "4767284"   "4770615"   "4984974"   "5246349"   "5263832"   "5295798"   "5401149"   "5454700"   "5674063"   "5836754"   "5910001"   "5938420"   "6371744"   "6422844"   "6461112"   "6652250").PN. OR ("6948915").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/07 13:21
S33	8	"5961291"	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 10:28
S34	22	"4664601"	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 10:42
S35	1159	417/44.1.ccls.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:14
S36	1	S35 and rotors near reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:14
S37	3	S35 and rotors with reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:15
S38	4	"417".clas. and rotors near reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:15
S39	22	"4664601"	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:26
S40	28	("3890063"   "4068980"   "4135860"   "4219312"   "4225288"   "4492526"   "4511312"   "4518316").PN. OR ("4664601").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:28
S41	343	vane near rotary near compressor	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:29
S42	78	S41 and "417".clas.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:29
S43	92754	vacuum adj pump	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:34
S44	1541	S43 and rotors	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:34
S45	321	S44 and reverse	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:34
S46	27	S44 and reverse with (spin or rotate)	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:34
S47	5	("4718833").PN. OR ("5314312").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:38
S48	5	("4718833").PN. OR ("5314312").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:39
S49	12	("4293290"   "4621994"   "4846641"   "5295798"   "5314312"   "5329216"   "5354179"   "5779453").PN. OR ("5904473").URPN.	US-PGRUB; USPAT; USOCR	OR	OFF	2009/04/08 11:39

S50	25	("2640428"   "3811805"   "4152092"   "4712048"   "4758132"   "4797068"   "4808077"   "4850806"   "5062771"   "Re17689").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:40
S51	343	vane rotary compressor	US-PGPUB; USPAT; USOCR	NEAR	OFF	2009/04/08 11:43
S52	41	S51 and rotors	US-PGPUB; USPAT; USOCR	NEAR	OFF	2009/04/08 11:43
S53	3	rotors change direction	US-PGPUB; USPAT; USOCR	NEAR	OFF	2009/04/08 11:47
S54	3812235	vacuum adj pump rotors direction	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:47
S55	2	vacuum adj pump and rotors same ((change or switch) near direction)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:48
S56	2	vacuum adj pump and rotors same (change near direction)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:49
S57	95	pump and rotors same (change near direction)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:49
S58	114	rotors with (change near direction)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:50
S59	8	"5961291"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:55
S60	13	("4144986"   "4944748"   "5110264"   "5380171"   "5501583"   "5823261"). PN. OR ("5961291").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 11:55
S61	22	"4664601"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/08 13:26
S62	22	"4664601"	US-PGPUB; USPAT	WITH	OFF	2009/08/26 16:00
S63	8	"5961291"	USPAT	OR	ON	2009/08/26 16:27
S64	8	"5961291"	US-PGPUB; USPAT	OR	ON	2009/08/26 16:28
S65	84245	vacuum adj pump	US-PGPUB; USPAT	OR	ON	2009/08/26 16:28
S66	1033	S65 and control and forward near backward	US-PGPUB; USPAT	OR	ON	2009/08/26 16:28
S67	2102	S65 and control and forward near (backward or reverse)	US-PGPUB; USPAT	OR	ON	2009/08/26 16:28
S68	1	S65 and control and forward near (backward or reverse) with scrape	US-PGPUB; USPAT	OR	ON	2009/08/26 16:28
S69	0	("2009/0097984").URPN.	USPAT	OR	ON	2009/08/26 16:29

S70	3	S65 and control and forward near (backward or reverse) with scrap\$3	US-PGPUB; USPAT	OR	ON	2009/08/26 16:30
S71	92	S65 and control and forward near (backward or reverse) same start\$3	US-PGPUB; USPAT	OR	ON	2009/08/26 16:30
S72	26	S65 and control same forward near (backward or reverse) same start\$3	US-PGPUB; USPAT	OR	ON	2009/08/26 16:31
S73	366	S65 and control same forward near (backward or reverse)	US-PGPUB; USPAT	OR	ON	2009/08/26 16:31
S74	204	S65 and control with forward near (backward or reverse)	US-PGPUB; USPAT	OR	ON	2009/08/26 16:31
S75	123	S65 and control with forward near (backward or reverse) same motor	US-PGPUB; USPAT	OR	ON	2009/08/26 16:31
S76	154	S65 and control\$3 with forward near (backward or reverse) same motor	US-PGPUB; USPAT	OR	ON	2009/08/26 16:32
S77	460	S65 and (backward or reverse) near2 motor	US-PGPUB; USPAT	OR	ON	2009/08/26 16:33
S78	173	S65 and (backward or reverse) near motor	US-PGPUB; USPAT	OR	ON	2009/08/26 16:33
S79	5	S65 and (backward or reverse) near motor and "417".cls.	US-PGPUB; USPAT	OR	ON	2009/08/26 16:33
S80	873	417/44.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/26 17:34
S81	78	417/27.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/26 17:34
S82	1	S68 and S65	US-PGPUB; USPAT	OR	ON	2009/08/26 17:34
S83	41	S80 and S65	US-PGPUB; USPAT	OR	ON	2009/08/26 17:34

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